AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in this application:

LISTING OF CLAIMS:

1. (Currently Amended) A method for operating a voice-supported system in a motor vehicle, the system including at least one microphone, at least one loudspeaker, and a bandpass filter arranged between the microphone and the loudspeaker, comprising:

determining a power of the <u>a</u> signal as a function of frequency; and adjusting the bandpass filter at least one of as a function of at least one local maximum of the power of the signal as a function of the frequency and as a function of a derivative of the power of the signal with respect to frequency.

- (Original) The method according to claim 1, wherein the voice-supported system includes at least one of a communications device, an intercom device, a twoway intercom device, and a duplex telephony device.
- 3. (Currently Amended) The A method according to claim 1, further for operating a voice-supported system in a motor vehicle, the system including at least one microphone, at least one loudspeaker, and a bandpass filter arranged between the microphone and the loudspeaker, comprising:

determining a power of a signal as a function of frequency;

adjusting the bandpass filter at least one of as a function of at least one local maximum of the power of the signal as a function of the frequency and as a function of a derivative of the power of the signal with respect to frequency; and

determining the local maximum of the power of the signal as a function of the derivative of the power of the signal with respect to frequency.

4. (Currently Amended) The A method according to claim 1, further for operating a voice-supported system in a motor vehicle, the system including at least one microphone, at least one loudspeaker, and a bandpass filter arranged between the microphone and the loudspeaker, comprising:

determining a power of a signal as a function of frequency;

adjusting the bandpass filter at least one of as a function of at least one local maximum of the power of the signal as a function of the frequency and as a function of a derivative of the power of the signal with respect to frequency; and

determining the local maximum of the power of the signal as a function of a first derivative of the power of the signal with respect to frequency.

5. (Currently Amended) The A method according to claim 1, further for operating a voice-supported system in a motor vehicle, the system including at least one microphone, at least one loudspeaker, and a bandpass filter arranged between the microphone and the loudspeaker, comprising:

determining a power of a signal as a function of frequency;

adjusting the bandpass filter at least one of as a function of at least one local maximum of the power of the signal as a function of the frequency and as a function of a derivative of the power of the signal with respect to frequency;

forming a slope signal from a first derivative of the power of the signal with respect to the frequency having a first binary value when the first derivative of the power of the signal with respect to frequency is greater than or equal to zero and a second binary value when the first derivative of the power of the signal with respect to frequency is less than zero; and

determining the local maximum of the power of the signal as a function of a first derivative of the slope signal.

6. (Currently Amended) The A method according to claim 1, for operating a voice-supported system in a motor vehicle, the system including at least one microphone, at least one loudspeaker, and a bandpass filter arranged between the microphone and the loudspeaker, comprising:

determining a power of a signal as a function of frequency; and
adjusting the bandpass filter at least one of as a function of at least one local
maximum of the power of the signal as a function of the frequency and as a function
of a derivative of the power of the signal with respect to frequency;

wherein the bandpass filter is adjusted in the adjusting step as a function of a first derivative of the power of the signal with respect to frequency.

7. (Currently Amended) The A method according to claim 1, further for operating a voice-supported system in a motor vehicle, the system including at least one microphone, at least one loudspeaker, and a bandpass filter arranged between the microphone and the loudspeaker, comprising:

determining a power of a signal as a function of frequency;

adjusting the bandpass filter at least one of as a function of at least one local maximum of the power of the signal as a function of the frequency and as a function of a derivative of the power of the signal with respect to frequency; and

forming a slope signal having a first binary value when a first derivative of the power of the signal with respect to frequency is greater than or equal to zero and a second binary value when the first derivative of the power of the signal with respect to frequency is less than zero, the bandpass filter adjusted in the adjusting step as a function of the slope signal.

- 8. (Original) The method according to claim 7, wherein the bandpass filter is adjusted in the adjusting step as a function of a first derivative of the slope signal.
- 9. (Original) The method according to claim 1, further comprising determining all local maxima in one frequency range.
- 10. (Original) The method according to claim 9, further comprising determining a global maximum in the frequency range.
- 11. (Original) The method according to claim 1, wherein the bandpass filter is adjusted in the adjusting step to block a portion of the signal at a notch frequency only when a ratio at least of the power of the signal at a frequency at which the power of the signal is a maximum to an average value of the power of the signal at additional frequencies of the signal is greater than a feedback-power threshold.
- 12. (Original) The method according to claim 1, wherein the bandpass filter is adjusted in the adjusting step to block a portion of the signal at a notch frequency only when a ratio at least of the power of the signal at a frequency at which the power of the signal is a maximum to an average value of the power of the signal at

NY01 1281480

additional frequencies of the signal is greater than a feedback-power threshold for longer than a time-ratio-threshold.

- 13. (Original) The method according to claim 1, wherein the bandpass filter is adjusted in the adjusting step to block a portion of the signal at a notch frequency only when a ratio of the power of the signal at a frequency at which the power of the signal is a maximum plus the power of the signal at frequencies of the signal adjacent to the frequency at which the power of the signal is a maximum to an average value of the power of the signal at additional frequencies of the signal is greater than a feedback-power threshold.
- 14. (Original) The method according to claim 1, wherein the bandpass filter is adjusted in the adjusting step to block a portion of the signal at a notch frequency only when a ratio of the power of the signal at a frequency at which the power of the signal is a maximum plus the power of the signal at frequencies of the signal adjacent to the frequency at which the power of the signal is a maximum to an average value of the power of the signal at additional frequencies of the signal is greater than a feedback-power threshold for longer than a time-ratio-threshold.
- 15. (Original) The method according to claim 1, wherein the bandpass filter is adjusted in the adjusting step to block a portion of the signal at a notch frequency only when a ratio of the power of the signal at a frequency at which the power of the signal is a maximum plus the power of the signal at a frequency of the signal that is directly adjacent to the frequency at which the power of the signal is a maximum and at which the power is greater than at a frequency that is also directly adjacent to the frequency at which the power of the signal is a maximum to an average value of the power of the signal at additional frequencies of the signal is greater than a feedback-power threshold.
- 16. (Original) The method according to claim 1, wherein the bandpass filter is adjusted in the adjusting step to block a portion of the signal at a notch frequency only when a ratio of the power of the signal at a frequency at which the power of the signal is a maximum plus the power of the signal at a frequency of the signal that is directly adjacent to the frequency at which the power of the signal is a maximum and

at which the power is greater than at a frequency that is also directly adjacent to the frequency at which the power of the signal is a maximum to an average value of the power of the signal at additional frequencies of the signal is greater than a feedback-power threshold for longer than a time-ratio-threshold.

- 17. (Original) The method according to claim 1, wherein the bandpass filter is adjusted in the adjusting step to block a portion of the signal at a notch frequency only when a ratio of the power of the signal at a frequency at which the power of the signal is a maximum plus the power of the signal at a frequency of the signal that is directly adjacent to the frequency at which the power of the signal is a maximum and at which the power is greater than at a frequency that is also directly adjacent to the frequency at which the power of the signal is a maximum to an average value of the power of the signal of all further frequencies of the signal is greater than a feedback-power threshold.
- 18. (Original) The method according to claim 1, wherein the bandpass filter is adjusted in the adjusting step to block a portion of the signal at a notch frequency only when a ratio of the power of the signal at a frequency at which the power of the signal is a maximum plus the power of the signal at a frequency of the signal that is directly adjacent to the frequency at which the power of the signal is a maximum and at which the power is greater than at a frequency that is also directly adjacent to the frequency at which the power of the signal is a maximum to an average value of the power of the signal of all additional frequencies of the signal is greater than a feedback-power threshold for longer than a time-ratio-threshold.
- 19. (Original) The method according to claim 11, further comprising determining the feedback-power threshold as a function of an output signal of the bandpass filter.
- 20. (Original) The method according to claim 11, wherein the feedback-power threshold is between 20 and 50.
- 21. (Original) The method according to claim 1, wherein the bandpass filter is adjusted in the adjusting step to block a portion of the signal at a notch frequency

only when a ratio of the power of the signal at a frequency at which the power of the signal is a maximum to an average value of the power of the signal at further frequencies at which the power of the signal includes a local maximum is greater than a power threshold.

- 22. (Original) The method according to claim 1, wherein the bandpass filter is adjusted in the adjusting step to block a portion of the signal at a notch frequency only when a ratio of the power of the signal at a frequency at which the power of the signal is a maximum to an average value of the power of the signal at all further frequencies at which the power of the signal includes a local maximum is greater than a power threshold.
- 23. (Original) The method according to claim 21, wherein the power threshold is one of between 20 and 50 and between 30 and 40.
- 24. (Original) The method according to claim 22, wherein the power threshold is one of between 20 and 50 and between 30 and 40.
- 25. (Original) The method according to claim 1, wherein the bandpass filter is adjusted in the adjusting step as a function of an output signal.
- 26. (Currently Amended) A device for operating a voice-enhancement system, comprising:

at least one microphone;

at least one loudspeaker configured to reproduce a signal generated by the microphone;

a bandpass filter arranged between the microphone and the loudspeaker; and decision logic configured to adjust the bandpass filter at least one of as a function of at least one local maximum of a power of the signal as a function of frequency and as a function of a derivative of the a power of the signal with respect to frequency.

27. (Original) The device according to claim 26, wherein the bandpass filter includes a filter bank having at least one notch filter.

- 28. (Original) The device according to claim 26, further comprising an arrangement configured to determine the power of the signal as a function of frequency.
- 29. (Currently Amended) A device for operating a voice-enhancement system, comprising:

at least one microphone;

at least one loudspeaker configured to reproduce a signal generated by the microphone;

a bandpass filter arranged between the microphone and the loudspeaker; an arrangement configured to determine a power of the signal as a function of frequency; and

an arrangement configured to adjust the bandpass filter at least one of as a function of at least one local maximum of the power of the signal as a function of the frequency and as a function of a derivative of the power of the signal with respect to frequency.

30. (Currently Amended) A device for operating a voice-enhancement system, comprising:

at least one microphone;

at least one loudspeaker for reproducing a signal generated by the microphone;

a bandpass filter arranged between the microphone and the loudspeaker;
means for determining a power of the signal as a function of frequency; and
means for adjusting the bandpass filter at least one of as a function of at least
one local maximum of the power of the signal as a function of the frequency and as a
function of a derivative of the power of the signal with respect to frequency.

31. (New) The method according to claim 1, wherein the bandpass filter is adjusted in the adjusting step as a function of the derivative of the power of the signal with respect to frequency and as a function of at least one local maximum of the power of the signal as a function of the frequency.

- 32. (New) The device according to claim 26, wherein the decision logic is configured to adjust the bandpass filter as a function of the derivative of the power of the signal with respect to frequency and as a function of at least one local maximum of the power of the signal as a function of frequency.
- 33. (New) The device according to claim 29, wherein the arrangement configured to adjust the bandpass filter is configured to adjust the bandpass filter as a function of the derivative of the power of the signal with respect to frequency and as a function of at least one local maximum of the power of the signal as a function of the frequency.
- 34. (New) The device according to claim 30, wherein the bandpass filter adjusting means is for adjusting the bandpass filter as a function of the derivative of the power of the signal with respect to frequency and as a function of at least one local maximum of the power of the signal as a function of the frequency.